

Wednesday, August 16, 2017 2:43:22 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO37318 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

[illegible]



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No: 3357723

Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 15-AUG-17	F.O.B. ORIGIN	Freight Terms Prepaid		Carrier MANITOULIN	BOL No 3357723-2		

Shipment Details

Order No	Line No	Item No	Description
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4846834	1	34-1407-23-144	AND10134-1407.2024.T3511.ALUMINUM.144.0000.A01
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Purchase Order No 37318	Part Number YOUR ITEM NUMBER: AND10134-1407	Ordered Qty 12.00 FT	Invoice Qty 12.0000 FT
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Details	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS		
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Delivery No. 121239399	Mill/Source KAISER ALUMINUM ALEXCO	Heat Number 15-9393-11	Mech Id 1	PCS 1	Width (IN) 144.0000	Length (IN) 144.0000	Shipped Qty(LBS) 4.7040
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Barcode 15-9393-11 DAS 5 9-8							
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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer upon request.

Reviewed by Authorized Castle Metals Representative:

SHIPPED AUG 15 2017 Date: Name: *cl. Randh*

Date Printed: 15-AUG-2017 03:09:00 PM



6520 W. Allison Rd.
Chandler, AZ 85226
866-525-3926

CERTIFIED TEST REPORT

Castle Metals
3050 S Hydraulic

Mill Lot #: 159393

Wichita

KS 67216

Invoice #: 224213

Customer Order #: 398064

Shipment Complete

Produced To: 10134-1407

Packaging Fiber Box

Date: 09/30/16

Item Number: 1

Die Number: 10008

Net Weight (Lbs.): 186

Alloy - Temper: 2024 - T3511

Cut Length (in.): 144.000

No. of Boxes: 2

Specifications: AMS QQ-A-200/3

ASTM B221-14

AMS4165H

No. of Pieces: 38

Customer Stencil: AND10134-1407:10008

Feet: 456.00

Remarks: S1325738, K10-104, GS180C68, GAS180C68, LS10134-1407-2, 1MA100-10073.

Mechanical Test Reports

Mill Lot	DA	# Pcs.	Alloy - Temper	YS (ksi)	UTS (ksi)	% Elong.	Conductivity (%IACS)	SCF
159393 - 1	5	38	2024 - T3511	47.3	65.4	19.8	29.6	
9-89								

Chemical Composition Limits

Alloy	SI Min	FE Min	CU Min	MN Min	MG Min	CR Min	ZN Min	TI Min	ZR Min	V Min	Others Each
2024	0.00	0.00	3.8	0.30	1.2	0.00	0	0.00			0.05
	SI Max	FE Max	CU Max	MN Max	MG Max	CR Max	ZN Max	TI Max	ZR Max	V Max	Others Total
Correct Cert	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15			0.15
Remainder is Aluminum											

Certified Test Report: Kaiser Aluminum Alexco LLC, hereby certifies that metal shipped under this order was made in the USA from material melted in the USA and was inspected and tested and found to be in conformance with the applicable specifications forming a part of the description set forth in Kaiser Alexco's sales acknowledgement form. Any warranty is limited to that shown on Kaiser Alexco's general terms and conditions of sale. Test reports are on file subject to examination.

Gary Thomas

Gary Thomas: Metallurgical Manager



MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M2024T3AL125X150X0.125X0.156 PO / BATCH NO.: P037318/M138302
 DATE: AUG 17 2017

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .125
 THICKNESS RECEIVED: .125
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>Am5 QA A 200/3</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>HT # 159393 -1</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <div style="text-align: center;"><u>5</u></div>	SIGNED OFF BY: _____	
DATE: <u>AUG 17 2017</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 2024-T3/T35640/6554 ALUMINUM ANGLE
PER AMS-QQ-A-200/3
OR AMS 4152, 4164 & 4165

9-89

PART NUMBER: M2024T3A

H.HH X W.WW X 0.TTT

X 0.RRR

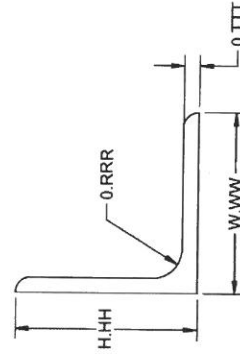
WHERE H.HH = HEIGHT

W.WW = WIDTH

0.TTT = THICKNESS

0.RRR = RADIUS

E.G. 0.75" X 0.75" X 0.125" = M2024T3AH-0.75XW0.75XT0.125XR0.125



RELEASED
R 2011-03-22
JW

A	NEW ISSUE		DESCRIPTION		AJS	11.02.14
	REV.				BY	DATE
DESIGN		AJS	DART AEROSPACE LTD			
DRAWN		AJS	HAWKESBURY, ONTARIO, CANADA			
CHECKED			DRAWING NO.	REV. A		
MFG. APPR.			M2024T3A	SHEET 1 OF 1		
APPROVED			TITLE	SCALE		
DE APPR.			2024-T3 ANGLE	NTS		
DATE	11.02.14					

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NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL,
INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM,
WITHOUT PERMISSION FROM DART AEROSPACE LTD.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37318**

Purchase Order Date 8/3/2017

PO Print Date 8/3/2017

Page Number 1 of 2

Order From :

VU-MET002

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
2017/08/03

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency USD

FOB Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M2024T3A1.25X1.50X0.125X0.156	2024-T3 ANGLE H1.25" X W1.50" X T1.25" X R0.156" (AND10134-1407)	8/3/2017 Yes 8/3/2017	FN	12.00	\$38.75	\$465.00

2	71401-45	PROCUREMENT QUALITY CLAUSES	8/3/2017 Yes 8/3/2017		1.00	\$0.00	\$0.00
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Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

Line Total: \$465.00

AUG 16 2017

Note:

8/3/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37318**

Purchase Order Date 8/3/2017

PO Print Date 8/3/2017

Page Number 2 of 2

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency USD

FOB Destination-Collect

Line Total: \$0.00

PO Total: \$465.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 8/3/2017

Diane Baker

From: Linda Lacelle
Sent: Wednesday, August 02, 2017 1:45 PM
To: Diane Baker
Subject: FW: Extrusion for D5546
Attachments: FW: quote

Diane,
Can you please order 12' ...quote attached.

Thx
L

From: Nazim Ould-Brahim
Sent: Wednesday, August 02, 2017 12:27 PM
To: Linda Lacelle <llacelle@dartaero.com>; Jean Francois Sauve <jfsauve@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Kim Johnston <kjohnston@dartaero.com>
Subject: RE: Extrusion for D5546

Each kit takes ~ 1ft of extrusion accounting for some scrap. I'm not sure what the demand for the kit is though, it's for a replacement for the D412-742-018 kit.

From: Linda Lacelle
Sent: Wednesday, August 02, 2017 11:45 AM
To: Nazim Ould-Brahim <nouldbrahim@dartaero.com>; Jean Francois Sauve <jfsauve@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Kim Johnston <kjohnston@dartaero.com>
Subject: RE: Extrusion for D5546

Just need to know how much to order...there was a quote for this, I think, right?

L

From: Nazim Ould-Brahim
Sent: Wednesday, August 02, 2017 11:40 AM
To: Linda Lacelle <llacelle@dartaero.com>; Jean Francois Sauve <jfsauve@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Kim Johnston <kjohnston@dartaero.com>
Subject: RE: Extrusion for D5546

LOL I was JUST about to send you an e-mail about this. It turns out that because we switched to 2024 we don't need a new drawing; M2024T3A Rev. A already allows for unequal leg lengths, and can be used for this part. Only this morning I realized that I hadn't sent anyone that info yet, so we didn't have a P/N to order that part against.

Kim, can you please create the part number below in intuitive so that we can order it?

M2024T3A1.25X1.50X0.125X0.156 "2024-T3 ANGLE H1.25 x W1.50 x T0.125 x R0.156 (AND10134-1407)"

Is there anything else needed for this part?

From: Linda Lacelle

Sent: Wednesday, August 02, 2017 11:07 AM

To: Jean Francois Sauve <jfsauve@dartaero.com>; Robert Aboud <raboud@dartaero.com>

Cc: Nazim Ould-Brahim <nouldbrahim@dartaero.com>

Subject: RE: Extrusion for D5546

P/N IS NOT EVEN CREATED... do not see anything open for this???

From: Jean Francois Sauve

Sent: Wednesday, August 02, 2017 10:38 AM

To: Linda Lacelle <llacelle@dartaero.com>; Robert Aboud <raboud@dartaero.com>

Cc: Nazim Ould-Brahim <nouldbrahim@dartaero.com>

Subject: Extrusion for D5546

Hi Linda / Robert,

I would need to know if the mat'l below has been ordered for Nazim's cable guard bracket (D5546).

Dwg. call's for M2024T3A H1.25 x W1.50 x T0.125 x R0.156

Thanks

M2024T3H1.25XW1.50

JEAN-FRANÇOIS SAUVÉ

Production Engineering Coordinator

DART AEROSPACE

T 1 613 632-5200 > 237

F 1 613 632-5246

1 800 556- 4166

www.dartaerospace.com



Diane Baker

From: Linda Lacelle
Sent: Friday, July 21, 2017 2:54 PM
To: Nazim Ould-Brahim
Subject: FW: quote

From: Desbiens, Marc [mailto:mdesbien@amcastle.com]
Sent: Friday, July 21, 2017 2:52 PM
To: Chantal Lavoie <clavoie@dartaero.com>
Cc: Linda Lacelle <llacelle@dartaero.com>
Subject: RE: quote

Hi Chantal,

price and delivery on material.

2024-t3 angle p/n: AN10134-1407 X 12 FT

\$ 38.75 Ft 2 weeks

Thanks

Marc Desbiens
Représentant Ventes Internes
Métaux Castle, Montreal, QC
Ligne directe 514-795-8176
1-800-806-6660 ext 52226
Fax: 1-855-892-6370

Votre Solution D'Approvisionnement Sur Mesure Pour Vos Besoins de Métaux

M 2024-T3 A H 1.25 x W 1.50
x 70.125 x R C
156

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